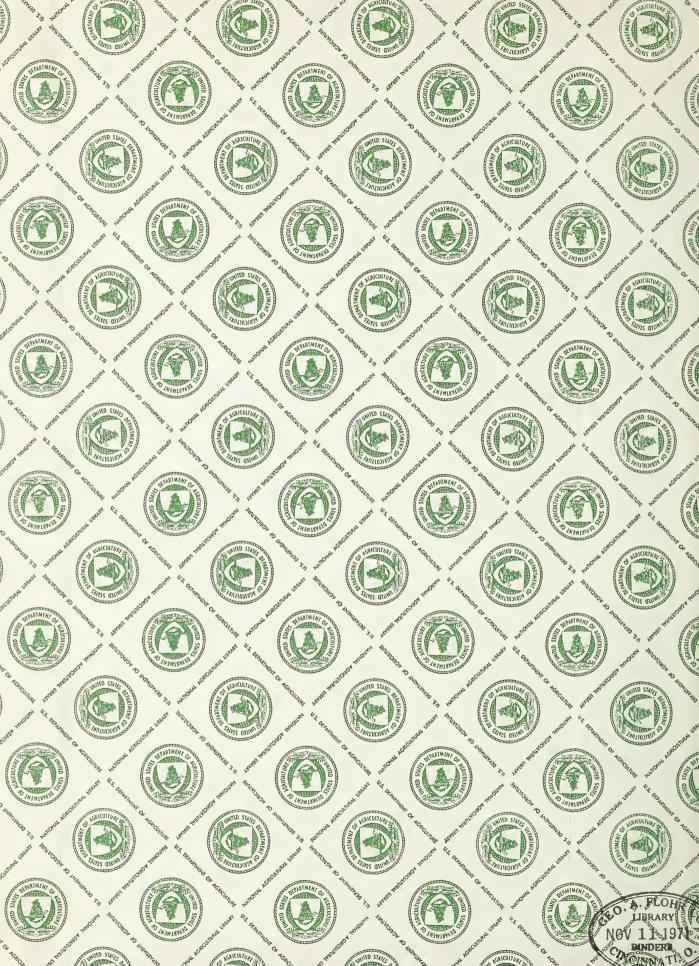
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Do not assume content reflects current scientific knowledge, policies, or practices.

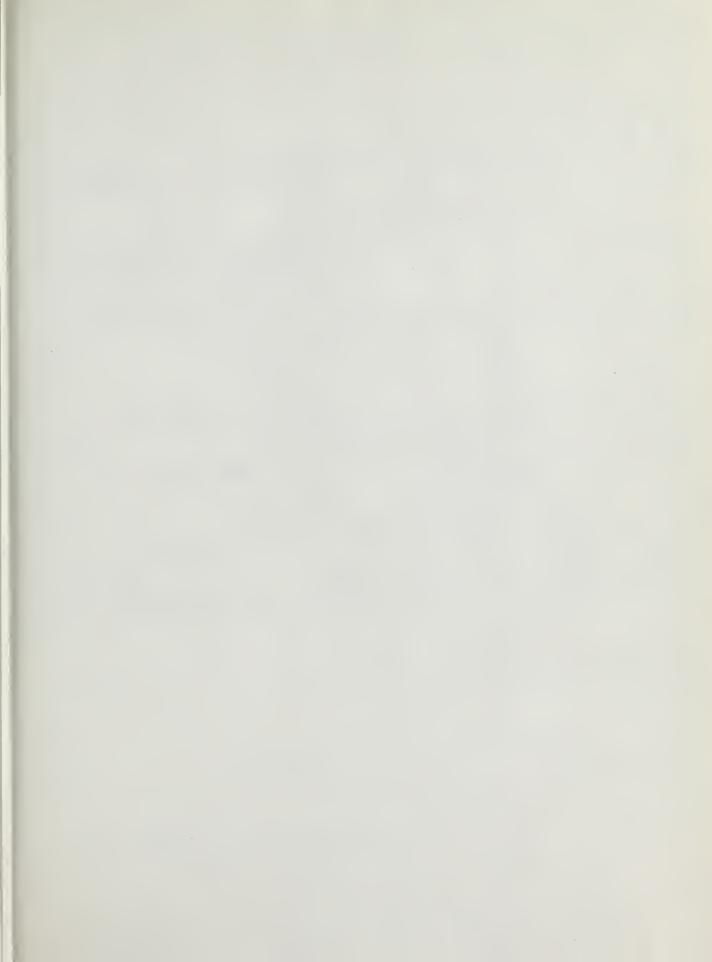




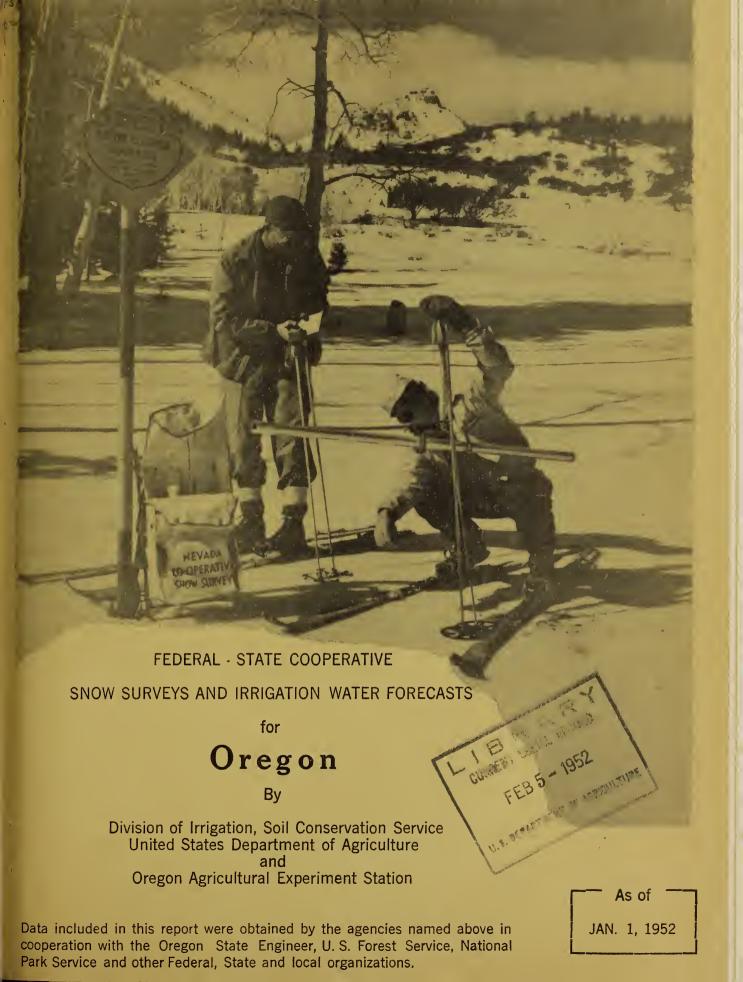














235902

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

OREGON

Report Prepared

bу

W. T. Frost, Hydraulic Engineer

Issued

January 9, 1952

Division of Irrigation
Soil Conservation Service
and
Oregon Agricultural Experiment Station
P. O. Box 1149
Medford, Oregon



January 1, 1952

PRELIMINARY WATER SUPPLY OUTLOOK FOR OREGON

Oregon's 1952 water supplies in the form of mountain snows have received a big boost from recent storms. Present snow-cover is better than twice as heavy as is usually measured at this date. Above normal fall and winter flow of three representative Oregon streams indicates that much of the effect of the severe summer drought has been cancelled by heavy precipitation. Reservoired water supplies are less than last year in 14 out of 20 reservoirs reported, but this will be partially offset by the heavy snow-cover which is already greater in water content at 12 stations than is usually recorded at the beginning of the melting season.

Water content of the mountain snow-cover, as of January 1, averages 216 percent of normal on 41 courses throughout the State and 247 percent of last year at this date. Water content of snow above 5000 feet is 208 percent of last year and 222 percent of average while below 5000 feet the water content is 302 percent of last year and 213 percent of average. Cooler than normal temperatures have caused low elevation rains to turn to snow accumulating above normal amounts of snow at lower elevations. (See special Willamette Valley snow profile reports on pages 10, 11 and 12 for low elevation snow records in that area.)

Watershed soils under the snow are extremely wet throughout the State. Preliminary figures of streamflow for the October-December period show flow of Umpqua River has been 256 percent of median, John Day River 140 percent of median and Columbia River 139 percent of median. The amount of melting snow required to "prime" the watersheds next spring will apparently be relatively small, hence a larger portion of snow melt-water will be available for streamflow.

Total water stored in twenty reported reservoirs is not 6 percent less than last year, 30 percent more than in 1950 and 1 percent more than average.

Furnished by U.S. Geological Survey, Water Resources Division, Portland, Oregon.



A tabulation of Oregon drainages follows presenting the January 1 water content of the snow as percent of 1951, 1950 and average of record:

DRAINAGE	No. of Courses Averaged	Yrs.of Record		1, 1952 as perc	
			1951	1950	Average
Owyhee River	1-2	5-7	393	524	282
Malheur River	2	9-16	241	373	205
Burnt River	2	13-16	183	286	175
Powder River	1	13	183	347	183
Grande Ronde River	1	12	296	197	156
John Day River	3	16	203	273	176
Deschutes River	3	4-14	191	156	165
Willamette Valley	8-10	1-14	221	134	201
Umpqua River	2	3-22	406	253	336
Rogue River	8-9	2-16	260	244	228
Klamath Lake Basin	12-15	2-25	244	306	251
Goose Lake Basin	2	12-21		354	308
Hamey Basin	2	14-15	290	404	246



STATUS OF OREGON RESERVOIR STORAGE, JANUARY 1, 1952

	STATUS OF OREGO	N RESERVOIR	STORAGE	, JANUARY	1, 1952		
		USABLE	T	housand A	cre Feet	in Stora	gө
BASIN		CAPACITY		about	JANUA RY	FIRST	
and	RESERVOIR	(Thousand	-				10 yr.avg.
STREAM		Acre Foet)	1952	1951	1950	1949	1941-50
		UPPER COLUM	RTA DRAT	NAGE			;
	•	Lower Snak					
0	4b 7				7.7	M D	0.0
Owyhee	Antelope	36.5	N.R.	11.7	N.R.	N.R.	0,8
	Owyhee	715.0	426.6	422.1	355.1	260.8	413.6
Malheur	Wown Chrises	191.0	18.4	14.9	0.7	13.1	#O O
Marifedi	Warm Springs	60.0	11.9		9.3		70.0
	Agency Valley	00.0	11.9	10.1	15.0	31.3	33.3
Burnt	Unity	25, 2	4.8	7.3	1.6	8,4	7.6
Dullio	onroy	200 2	4.0	1.0	7,0	0, ±	7.0
Granda Ronda	Wallowa Lake	40.9	9.9	20.0	12.1	20.6	20.0
Grando Honao	Maria Tolla	10,0	0.0	20.0	46.04	20.0	20.0
		LOWER COLUM	BIA DRAI	NAGE			
Umatilla	McKay	74.0	18.8	40.3	17.0	25.1	30.6
Olla of I fa	Cold Springs	50.0	23.3	30.7	19.1	23.8	22.0
	ord obting a	30.0	20.0	50.1	T 0 9 T	20,0	22.0
Deschutes	Och oc o	46.0	21.7	30.0	1.7	30.8	16.2
Booomaco	Crescent Lake	54.9	47.6	53.2	50.3	52.6	36.6
	Crane Prairie	55.3	27.0		31.1	32.8	28.8
	Wickiup	180.0	137.6	153.8	138.6	128.9	58.7 ^d
	MIONIAP	100,0	101.0	100.0	100,0	120.0	00.1
Willamette	Dorena	70.5ª	0.8a	0.5	0.1		
11220000	Cottage Grove	30.1ª	0.0ª	0.2	0.1	0.5	0.5d
	Fern Ridge	94.2ª	0.6ª	0.1	0.3	1.9	5,6°
	10111 112460	01.0	0.0	0,1	0.0	-,0	0,0
		WEST COAS	T DRAINA	.GE			
Rogue	Fish Lake	7.8	4.3	4.7	4.0	4,8	3.8
Hogao	Fourmile Lakeb	16.1	5.8	9.1	6.7	6.9	5.1
	Emigrant Gap	8.3	7.4	5.5	0.9	4.7	3.6
	Hyatt Prairieb	16.1	2.5	3.7	3.0	6.8	3.7
	Hyaco Francis	TO • T	2.0	0.1	0,0	0,0	0.1
Klamath	Upper Klamath Lk	584.0°	410.4	403.6	198.7	292.8	263.4
	Gerber	94.0	22.1	24.1	11.5	18.6	33.3
	Clear Lake	440.2	72.3	96.6	99.4	134.2	198,7
	02 0 Day	110 6 2	1~,0	00,0	0001	#0 T 9 M	
Goose Lake	Cottonwood	4.1	N.R.	0.0	0.0	0.0	0,0
	Drew	62.5	N.R.	N.R.	35.0	36.5	32.0
			71 4 70	21 9 21 9		5.0	

N.R. - No Report

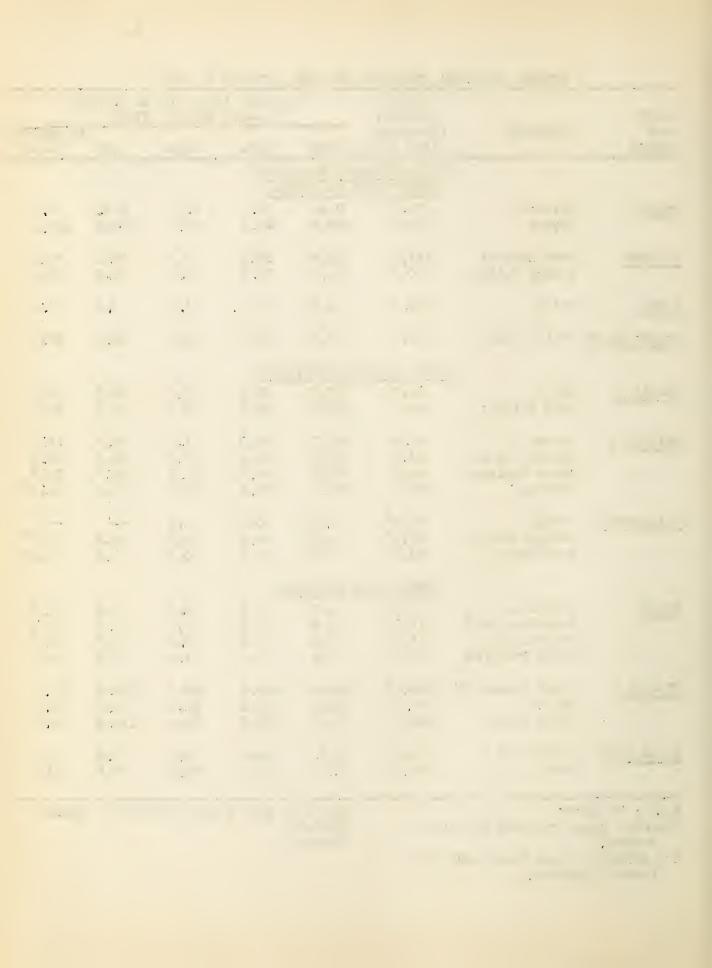
aStorage space reserved for flood

control.

bBy ditch to Rogue River side from Klamath drainage.

^cBased on gage zero elevation of 4135.0 d1943-50

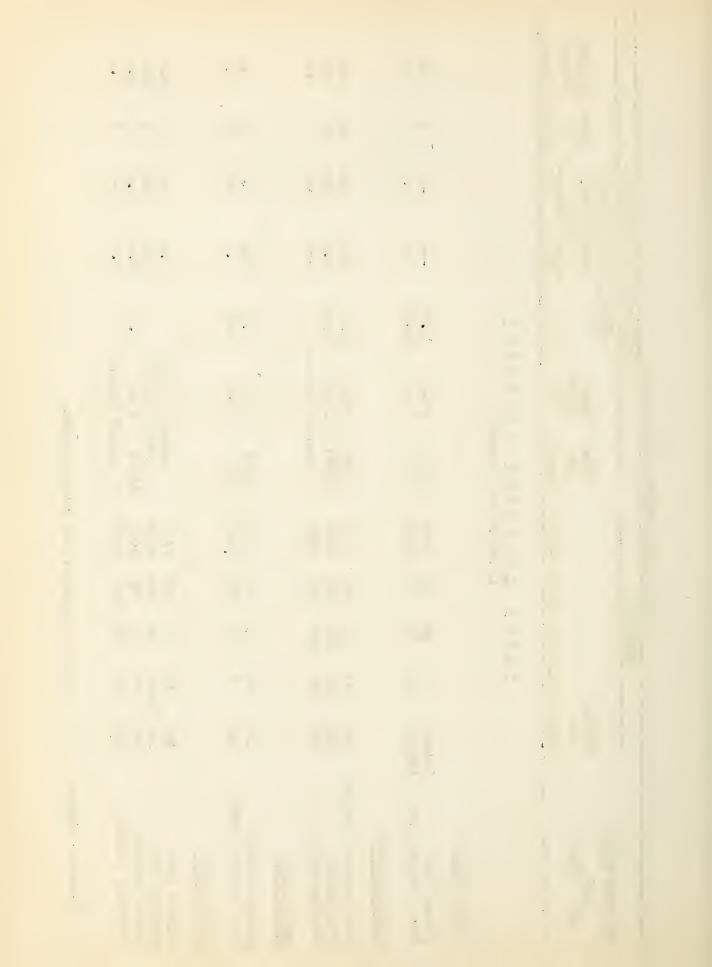
⁶1944-50



OREGON SNOW SURVEYS, JANUARY 1952

		H	LOCATION	N			SNC	W COVER	SNOW COVER MEASUREMENTS	TS		
DRAINAGE BASIN								Water C	Water Contant (In.)	1.e.)		
and SNGW COURSE	Number					Date	Snow		Same Approx. Date	• xo.	Years	Av.Water Content
	State	Sec Twp.	ı	Range	Elev,	Survey		1952	1951	1950	Record	Record (Inches)
		DI AI	UPPER	·	COLUMBI	I A D R	A I N A	四 5				
OWYHEE RIVER												
Silver City South Mountain No.2 I	Idaho12 Idaho13	35	53 7.8	3W 5W	6400 6340	12/31	54•0 40•0	14.4b	80	2.1	5	5.1
MALHEUR RIVER												
Blue Mountain Springs Rock Spring	133	23	158	35E	5900	12/28	46.1	11.0	4.8	3.0	16	5.7
Stinking Water	135	33	212	34E	4800	Repor	Report Delayed	•	1	1	(O)	1.5
BURNT RIVER												
Dooley Mountain Blue Mountain Summit	156 141	32	118	40E 36E	5430 5098	12/31	27 •4 27 •1	9.9	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.9	13	8 8 8 8
POWDER RIVER												
Anthony Lake Goodrich Lake	155	18 34&35	7.8 8.8	37 E 38E	7125	Repor Not	Report Delayed Not Measured		8.8 10.5	8.9	12	10.9
Dooley Mountain Eilertson Meadows	151B	32	11S 8S	40E 38E	5430	12/31 Repor	31 27 4 Report Delayed	9•9	3.6	1,9	13	5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

bGreatest January 1 water content recorded since surveys began.



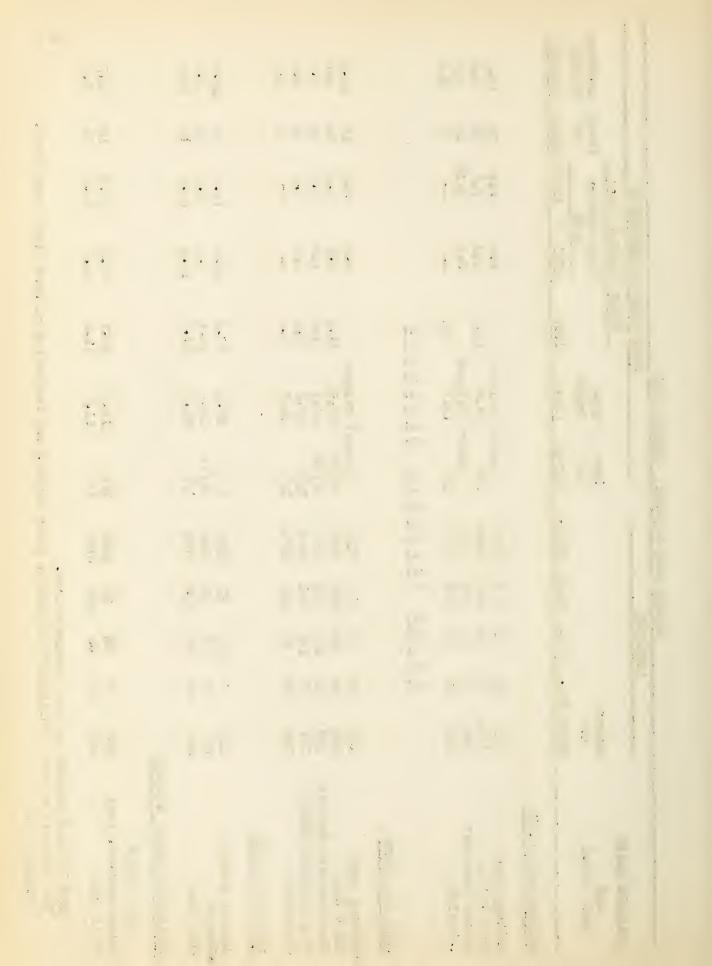
OREGON SNOW SUKVEYS, JANUARY 1952

							2004					4
		1	LOCATION	2			SNO	M COVER	SNOW COVER MEASUREMENTS	EN TS		;
DRAINAGE BASIN								Water	Content (In.	(In.)		
And SNOW COURSE	Number					Date of	Snow		Same Approx. Date	prox.	Years	Av.Water Content
	State	Sec	Twps	Range	Elev.	Survey	(In.)	1952	1981	1950	Record	(Inches)
GRANDE RONDE RIVER												
Anthony Lake	155	8 8	2 8	37E	7125	Repor	Report Delayed	14.8	8 4	8.9	12	10.9
Beaver Reservoir Schoolmarm	188 248	2 & &	5.8 8.8 8.8	37E 34E	5340 4775	Repor 1/3	Report Delayed	3.4	8.00	8-18	n n	9 2 S
		11	I S M S I	C C	L U	BIAD	RAINA	国				
JOHN DAY RIVER												
*Anthony Lake	155	18	7.8	37五	7125	Repor	Report Delayed	13.4	8 ° C	8.9	12	10.9
Blue Mountain Springs	133	12 12	158	35E	5900	12/28	46.1	11.0	4 4 8	3000	16	5.7
	248	28	45	34E	4775	1/3	15.7	8 4 8 4 4 8		3 1	1	6 5 6
DESCHUTES RIVER												
Cascade Summit	321	21	238	88 88 1	4880	1/4	92.8 55.4	27.3	12,3	14.8	4 4 6	16.0
Hogg Pass	351	24	138	7差形	4755	1/6	65.8	51.5	14.4	21.5	2	17.6
WILLAMETTE VALLEY STREAMS	STATE											
SANDY RIVER1 Phlox Point-Mt. Hood	452	9 4	80 80 00 00	9E	5600	1/3	111.6	40.7	27 • 3	32.4	21 [21.5
outi oreek	104	3	3	7 80	0016	c / 1	7010	7961	701	000	1	
*No+ 1000+01	. 47	+ 12. 0 22	المريد والمراد	0000								5.

Not located directly on this drainage area.

Not strictly a part of Willamette Drainage; these surveys are indicative of West Slope conditions.

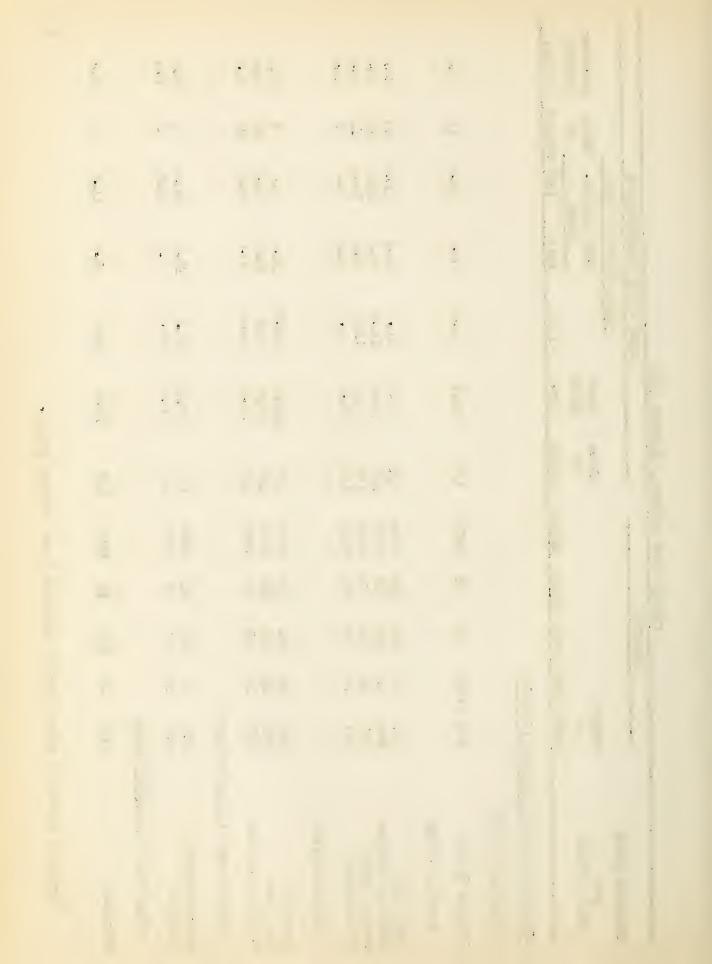
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OREGON SNOW SURVEYS, JANUARY 1952

			THE			-	5	TOTAL OCCUPANT	THE CHANGE OF THE PARTY OF THE	Other		
		3	LUCATION				2	ANOW COVER READOREMENTS	HEADOR HIVE	SMIS		
DRAINAGE BASIN								Water C	Water Content (In.)	In.)		
and SNOW COURSE	Number					Date	Snow		Same Approx.		Years	Av.Water Content
	State	Sece Twp.		Range	Elev.	Survey	(In.)	1952	1951	1950 Rec	Record	(Inches)
WILLAMETTE VALLEY STREAMS (Cont'd)	S (Con-	tad)										
CLACKAMAS RIVER												
Peavine Ridge	591 14&15	1615	89	7E	3500	1/3	48•1	14.0	4.3	10.2	14	5.7
SANTIAM RIVERS												
Hogg Pass	351	24	138	73里	4755	1/6	82.9	21.6	14.4	21.5	ខ្ព	17.6
Santiam Junction	552	14	138	7E	3990	1/6	71.6	16.9	7.1	14.6	10	9.e7
Marion Forks	553	28	118	7E	2730	1/6	40.7	11.6	2.0	10.4	e i	4.9
Brei tenbush	551	21	86	7E	2325	1/4	22 •0	3. 8. 8.	000	1	~	1.4
MCKENZIE RIVER												
Mo Kenzi e	531	35	155	7 <u>2</u> E	4800		104.0	32.6b	14.6	ł	Н	14.6
Hogg Pass Santiam Junction	351 552	24	13S 13S	7 _夢 医 7E	4755 3990	1/6	82.9	21.6 16.9	14.4	21.5	ឧឧ	17.6 9.7
MIDDLE FORK WILLAMETTE KIVER	KIV EX											
Cascade Summit	321	7	238	6E	4880	1/4	92.8	27.3	12.3	14.8	4	16.0
Champion	522	12	232	鬥	4500	1/2	76•2	24.3	3 . 0	11.6	63	6.4
COAST FORK WILLAMETTE RIVER	RIVER											
Champion	522	12	238	Ħ	4500	1/2	76.2	24.3	3.9	11.6	ы	6.4

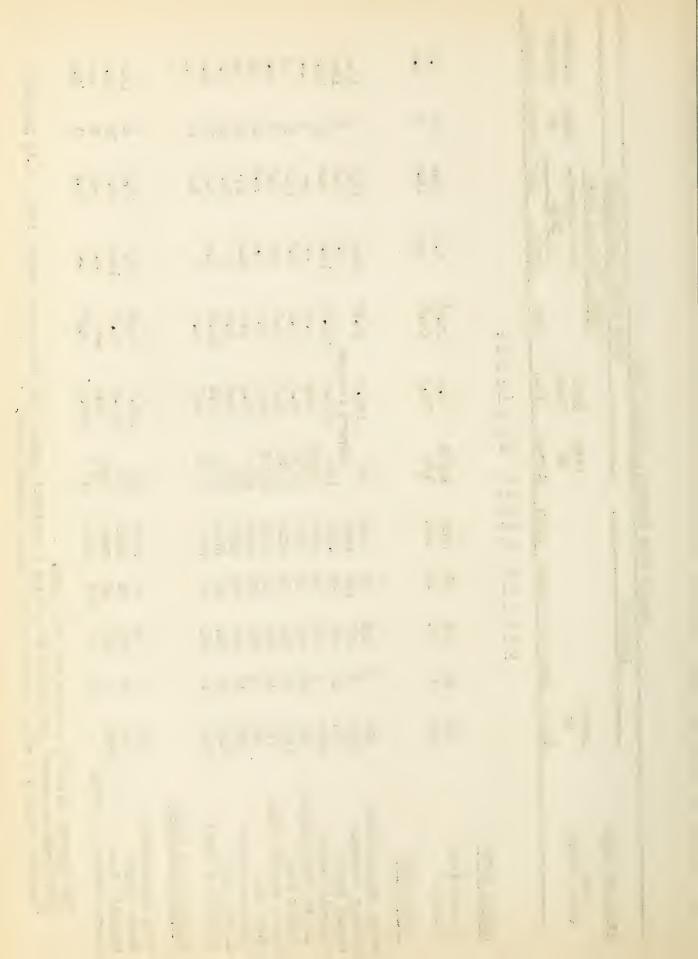
bGreatest January 1 water content recorded since surveys began-



OREGON SHOW SURVEYS, JANUARY 1952

		1	TUVVI				40	SHIME MEDITION OF COLUMN SHOWS	METOTION OFF	ENTING		
		1	CHILD				2	100 m	METO CONTIN	TWI I		
DRAINAGE BASIN								Water C	Content (In.	In.)		
and SNOW COURSE	Number					Date of	Snow		Same Approx.	proxe	Years	Av.Water Content
	State	Sec. Twp.	Twpo	Range	Elev.	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
		91	0 R E G	2 ol	G O A S	T O R	AINA	<u>ម</u> ា				
UMPQUA RIVER												
Diamond Lake Champion	743	29	27S 23S	6E 1E	5315 4500	12/31	79.4	20.8b 24.3	7.2	6.2	228	7.0
ROGUE RIVER												
*Park Headquarters	838	80	318	EE	6450	1/2	144.3	47.9b	25.9	12.5	9	19.7
Scragg Mountain	7220	တ	47 M	TOM	6200		Report Delayed		2.4	8.0	တ	10.1
*Annie Spring	831	13	318	E	6018	1/2	121.6	39 • 3b	19.5	9.5	12	13.8
*Fourmile Lake	7223	တ	368	2E	0009	12/25	49.2	1	1	ł	0	£ 1
Billie Creek Divide	722	30	363	5臣	5300	12/25	45.2	15.6	4.7	14.5	14	9.3
Hobart Lake	7221	17	40S	3E	2010	12/31	25.8	6.3	1	2.6	લ	4.6
*Hyatt Prairie Res.	723	15	398	3年		12/28	25.7	7.2	2•1	2.4	91	5.4
Fish Lake	725	(C)	37 S	4E		1/1	38.2	N 00 (7 • 1	7.3	12	5.0
Siskiyou Summit	728	14 30	40S	22 区	4630	1/3	50.3	30.2	α Η C	2 4	14 14	ა ა• ა•
South Fork Canal	7218	12	338	3E		12/30	15.3	3.4	EH	3.0	13	1.01
KLAMATH LAKE BASIN												
Park Headquarters	838	ω	318	9	6450	1/2	144.3	47.9b	25.9	12.5	မ	19.7
Annie Spring	831	19	318	田 :	6018	1/2	121.6	39.3b	19.5	9.5	12	13.8
Fourmile Lake *Quartz Mountain (COPCO)	7223	33	36S 37S	5E 16E	6000 5504	$\frac{12/25}{1/1}$	49°2	8°0b	1 1	2.3	21	2.9

*Not located directly on this drainage area. (COPCO)-Water content determined by melting a measured sample (The California Oregon Power Co.'s Station) Ogreatest January 1 water content recorded since surveys began.



		ĭ	LOCATION	77			SNC	W COVER	SNOW COVER MEASUREMENTS	STA		
DRAINAGE BASIN								Water C	Water Content (In.	n.)		
and and and	Number					Date	Snow		Same Approxe	roxe	Years	Av. Water
SINON COOKED	State	Sec	Sec. Twp.	Range	Eleve	Survey	(Ine)	1952	1951	1950	ਰ	(Inches)
KLAMATH LAKE BASIN (Cont'd)	t1d)											
	020	C	000	7.1	0 2 2 2	٦ /د	6 [0	١ 66	6	•	G	6
Sun Mountain	200	27	363	100 F	5550	٠/١٥	2019	66 el	7007	ֆ ¢	77	70 T
Quartz Mountain	811	82	388	16E	5320	1/2	80°	8.33	1	20.7	2 7	•
Billie Creek Divide	722	30	368	2座	5300	12/25	45.2	15.6	4.7	14.5	1 4	9.3
Lake of the Woods	835	11	37S	2足	4960	1/1	34.9	10.4D	1.6	4.0	12	3.2
Hyatt Prairie Res.	723	15	398	3E	4900	12/28	25.7	7.2	2.1	2.4	97	
Gerber	839	12	398	3E	4850	7,	12.0	3.0	•	1.5	~2	2.7
Bly 101 Ranch (COPCO)		22	35 S	14压	4800	12/31	17.6	2.6	0.0	1.1	24	0.7
Chemult	834	21	275	8至	4760	12/31	55.4	12.6	5.5	3.0	14	3.6
Yamsey (COPCO)		20	318	11 E	4600	Repor	Report Delayed		0.0	1.8	22	1,1
Kirk (COPCO)		Н	338	7医	4533	Repor	Report Delayed		1.2	2.3	24	2.4
Beatty (COPCO)		22	368	12E	4300		3 5	0.4	0.0	1.2	24	0.2
Crystal (COPCO)		56	348	E	4500	12/31	44.5	9°6	2.9	4.9	22	3.0
Harriman Lodge (COPCO)		63	368	6 E	4200	Repor	Report Delayed		0.5	1.2	24	1.6
Chiloquin (COPCO)		34	34S	7E	4187	12/31	19.5	3.9b	0.0	0.1	23	0.8
Fort Klamath (COPCO)		22	338	7 <u>2</u> E	4150	12/31	24.5	5.1	0.1	9•0	25	1.3
GOOSE LAKE BASIN												
Quartz Mountain (COPCO)		33	37.5	16E	5504	1/1	30.0	q 0•8	ţ	2.3	12	2.9
Quartz Mountain	118	O3	388	16E	5320	1/2	29.8	8.3 ^b	,	2.3	12	2.4
CHEWAUCAN RIVER												
Quartz Mountain	811	82	388	16E	5320	1/2	29.8	8°3p	1	2.3	12	2.4
; ;												

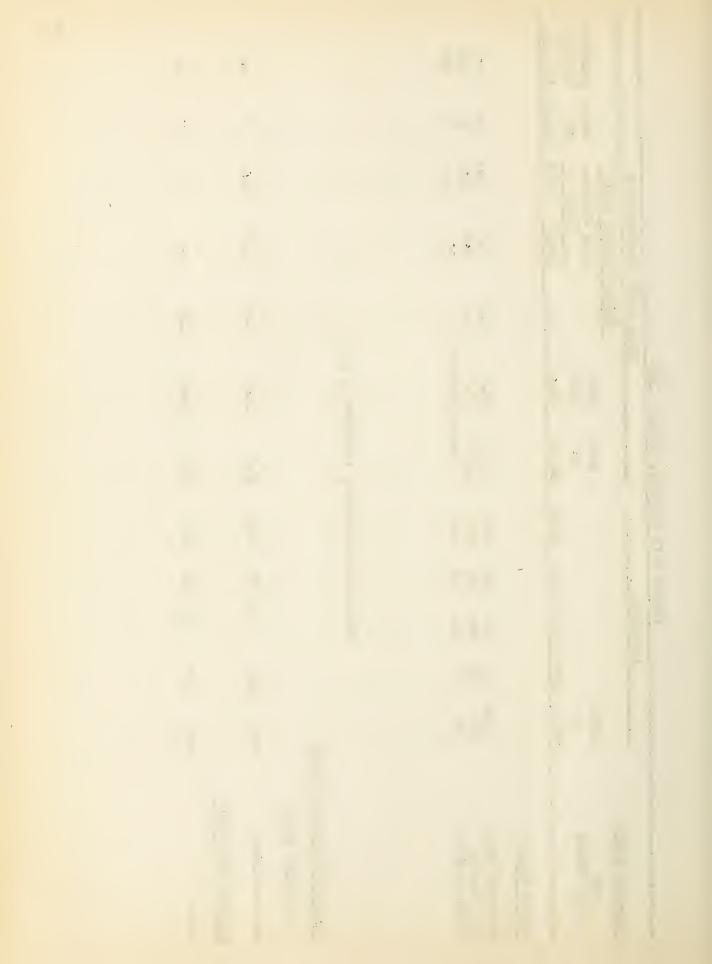
(COPCO)-Water content determined by melting a measured sample (The California Oregon Power Co.'s Station)

bareatest January 1 water content recorded since surveys began. "Not located directly on this drainage area.

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OREGON SHOW SURVEYS, JANUARY 1952

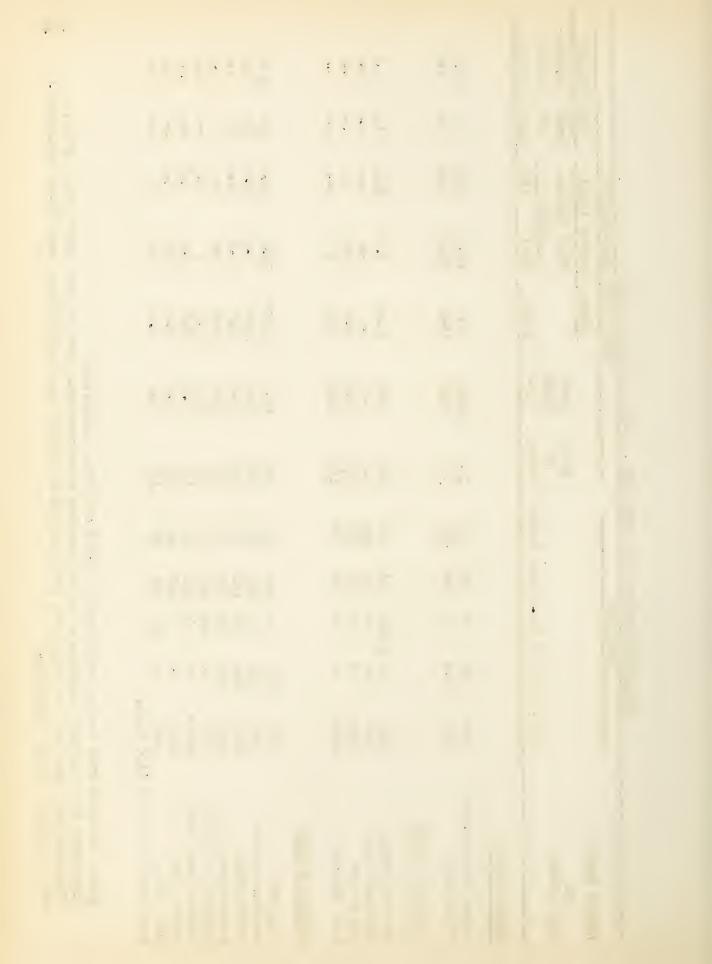
		Ä	LOCATION	-			SIN	OW COVER	SNOW COVER MEASUREMENTS	ENTS	,	
DRAINAGE BASIN								Water	Water Content (In.)	In.)		
and SNOW COURSE	Number	t.				Date	Snow Depth		Same Approx. Date	prox.	Years	Years AveWater of Content
	State	Sec	Sec. Twp.	Range	Elev.	Survey	(In.)	1952	1961	1950	Record	
HARNEY BASIN												
Idlewild Camp	961A		208	31E	5200	12/31	26.3	5.9	1.9	4.4	15	2.3
kock opring Stinking Water	135	33	218	32E	5100 4800	12/29 Repo	29 25.1 Report Delayed	5.4	2c0	4.1	14 9	2.3
			OREG	ON SNO	W SURVE	OREGON SNOW SURVEYS, DECEMBER 1,	BER 1, 1951	гd				
WILLAMETTE VALLEY STREAMS	AMS											
CLACKAMAS RIVER												
Peavine Ridge	591	14&15	68	7E	3500	12/3	12.8	2.4	4.7	0.0	63	3,9
KLAMATH LAKE BASIN												
Gerber	839	12	398	33	4850	12/3	10.2	1.3	1	!	1	1



WILLAMETTE VALLEY SNOW PROFILES - ABOUT JANUARY 1, 1952

		TOC	LOCATION				33	SNOW COVER MEASUREMENTS	MEASURE	MENTS		
STREAM BASIN								Water (Content (In.)	(In.)	Past	Past Record
and SNCW COURSE					į	Date	Snow		Same Approxe Date	pprox.	Years	Av.Water Content
	Eleve	Number Sec.	Seo	Twp.	Range	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
SANDY RIVER1												
Phlox Point-Mt.Hood Still Creek	5600	452 451	9 22	38	8F 3B	1/3	111.6	40•7	27 •3	32.4	12	21.5
CLACKAMAS RIVER												
Peavine Ridge Clackamas Lake	3500 3400	591 1. 592	14&15 35	68 58	7E 8½E	1/3	48.1	14.0	4.3	10.2	14	5.7
Big Bottom Lake Harriet	2118	* *	25	6S 6S	7E 7E	1/3	21.2	လ လ လူ လူ	T 0 1	11	11	11
SANTIAM RIVERS												
Hogg Pass	4755	351	24	138	7 2 E	1/6	82.9	21.6a	14.4	21.5	10	17.6
Santiam Junction	3950	552	14	138	7E	9/1	71.6	16.9	7.1	14.6	OF.	7.6
Marion Forks	2730	553	28	113	7E	1/6	40.7	11.6	2.0	10.4	2	4.9
Breitenbush	2325	551	23	98 86	7E	4/4	22.0	က် လူ (0		2	1.4
Whitewater Bridge	2175	*	88	TOS	되	9/1	50.62	7007		00/	1	ł
Detroit (new town)	1200+	*	H	108	2日	1/6	9 ° 5	2.3	0	2.1	}	1
Detroit Dam	1580	*	7	108	5距	1/6	7.5	2 • 7	0	2.3	1	1
Mall City	826	*	59	86	3E	1/6	0•0	0	0.0	E-4	1	1
Snow Line: At about 1100 feet.	100 feet	•										

Not strictly a part of the Willamette drainage; these surveys are indicative of west slope conditions. Awater content partly estimated. NOTE: Standard Snow Course measurements unless otherwise indicated.
Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey.



WILLAMETTE VALIEY SNOW PROFILES - ABOUT JANUARY 1, 1952

	TM	LLAMETT	E VAL	T.Y. O.N.	OW PROFI	LES - AB	OT JAIN UAL	WILLAMETTE VALLET SNOW PROFILES - ABOUT JANUARI 1, 1952				
		TOC	LOCAT ION				SI	SNOW COVER MEASUREMENTS	MEASUREME	SINTS		
STREAM BASIN								Water	Content (In.	(In.)	Past	Past Record
and SNOW COURSE						Date of	Snow Depth		Same Approx- Date	orox.	Years	Av.Water Content
	Eleve	Elev. Number	Sec	Twp.	Range	Survey	(In.)	1952	1951	1950	Record	Record (Inches)
MCKENZIE RIVER												
McKenzie	4800	531	35	158	73E	1/1	104.0	32.6	14.6	1	ł	ł
H P P P S S S S S S S S S S S S S S S S	4755	351	24	138	7 3 E	1/6	82.9	21.6a	14.4	21.5	ដ	17 .6
Santiam Junction	39 90	552	1 4	138	7. E.	1/6	71.6	16.9	7.1	14.6	엵	9 . 7
Dead Horse Grade	3800	*	13	165	7E	1/1	57.3	16.0	4.3	1	1	ī
White Branch Slide	2800	*	15	1.68	7.E	1/1	31.5	5.0	1.0	1	ł	1
Lost Creek Ranch	1956	*	24	168	田9	Į,	ı	1	E	1	i	i I
McKenzie Bridge	1372	*	13	168	5正	1/1	9.0	E	0.0	1	i	1
Vidae	800	*	28	168	2至	1/1	0•0	0.0	0.0	ł	ł	!
Snow Line: About one mile below Blue	mile be	low Blue	River		(about 1030	feet)						
MIDDLE FORK WILLAMETTE RIVER	RIVER											
Willamette Pass	2600	323	21	24S	5 沙玉	į	ł	i	ı	1	1	1 4
Waldo Lake	5500	521A	15	218	E	1	1	i	i	I	1	ŧ
Hiway Summit	51284	*	2	233	GE	ľ	i I	•	1	ł	ł	ŀ
Cascade Summit	4880	321	2	238	E	1/4	95.8	27.3	12.3	14.8	4	16.0
Champion	4500	522	12	238	当	2/1	76.2.	24.3	3.9	11.6	83	6.4
Salt Creek Falls	4000	*	33	228	9	1/4	52.8	14•4	2.5	11.0	i	ł
Railroad Overpass	2750	*	27	228	2E	1/4	16.4	3.0	0.5	5.2	ł	1
McCredie Spring	2120	*	36	213	4E	1/4	7.7	1.0	0•0	2.3	ł	1
Oakridge	1310	*	19	218	3E	1/4	EH	EH	0.0	9•0	I	1
Weridian Dam	750	*	13	198	H	į	1	ł	0.0	1	ł	1
Snow Li Probably at Oakridge.	t Oakrid	lge•										

*Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey. NOTE: Standard Snow Course measurements unless otherwise indicated.

awater content partly estimated.

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WILLAMETTE VALLEY SNOW PROFILES - ABOUT JANUARY 1, 1952

Terror of the second		LO	LOCATION	N			SNOW COVER	SNOW COVER MEASUREMENTS	MEASURE	MENTS		
STREAM BASIN								Water	Water Content (In.)	(In.)	Past	Past Record
and SNOW COURSE						Date	Snow Depth		Same Approx. Date	prox•	Years	Av.Water Content
	Elev.	Elev. Number		Sec. Twp.	Range	Survey	(In.)	1952	1921	1950	Record	Record (Inches)
COAST FORK WILLAMETTE RIVER (Row River)	RIVER (F	low Rive	(Je								_	
Champion	4500	522	12		鬥	1/2	76.2	24.3	3,0	11.6	βÇ	6.4
Golden Curry Creek	3136	*	-	238)E	1/2	28.1	7.8	800	180	1	
Nelson Creek	2864	*	36		耳	1	i	1	ł	2-6	1	1
Weaver Creek	2440	*	35	228	鬥	1/2	8	2-2	0.0	1	į	1
Lund Park	1740	*	22		JE	1/2	1.0	E	0	10-01	1	1
Layng Creek R.S.	1200	*	31	218	1度	1/2	0.0	0.0	0		1	1
Snow Line: At about 1600 feet.	1600 feet											
MARY'S RIVER												
Mary's Peak	3620	541	21	128	WL	1	1	ł	1	į	ł	ı

NOTE: Standard Snow Course measurements unless otherwise indicated. *Auxiliary snow station - average of 3 to 5 samples - measurements taken at same point each survey.

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OREGON PRECIPITATIONa

DD 4 TM 4 CD		ENT YEAR		T YEAR
DRAINAGE DIVISIONS	P P	51-Jan. 1, 1952 D	P P	0-Jan. 1, 1951 D
Southeastern	4.73	+ 1.99	3, 54	+ 0.74
Southcentral	4.71	+ 1.48	5,21	+ 2,07
Central	5,15	+ 1.45	7,15	+ 3,43
Columbia River	6,90	+ 0.96	9,53	+ 4.07
Wallowa Mountains	5,62	+ 0.58	5.34	+ 0.01
Blue Mountains	5,16	+ 0.64	5,00	+ 0.36
Southern	16.45	+ 6.53	17.69	+ 8,52
Willamette Valley	27.03	+ 5.85	33.41	+12.91

Southeastern

- Malheur and Owyhee drainages.

Southcentral

- Interior Basin drainages and Goose Lake.

Central

- Deschutes and Crooked drainages.

Columbia River

- Lower valleys of the Walla Walla, Umatilla, John Day, Deschutes and Hood River drainages.

Wallowa Mountains

- Imnaha, Wallowa, Catherine, Eagle and Pine drainages.

Blue Mountains

- Upper valleys of the Burnt, Powder, Grande Ronde, Umatilla, Walla Walla, John Day, Silvies and Malheur drainages.

Southern

- Umpqua, Rogue and Klamath drainages.

Willamette Valley

- All Willamette drainages.

aPreliminary data computed from Weather Bureau records.

The following organizations cooperate in the Oregon snow survey work:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

FEDERAL

Department of Agriculture
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Department of National Defense
Army Engineer Corps

PUBLIC UTILITIES

California-Pacific Utilities Company Portland General Electric Company The California Oregon Power Company

MUNICIPALITIES

City of Baker City of Corvallis City of LaGrande City of The Dalles

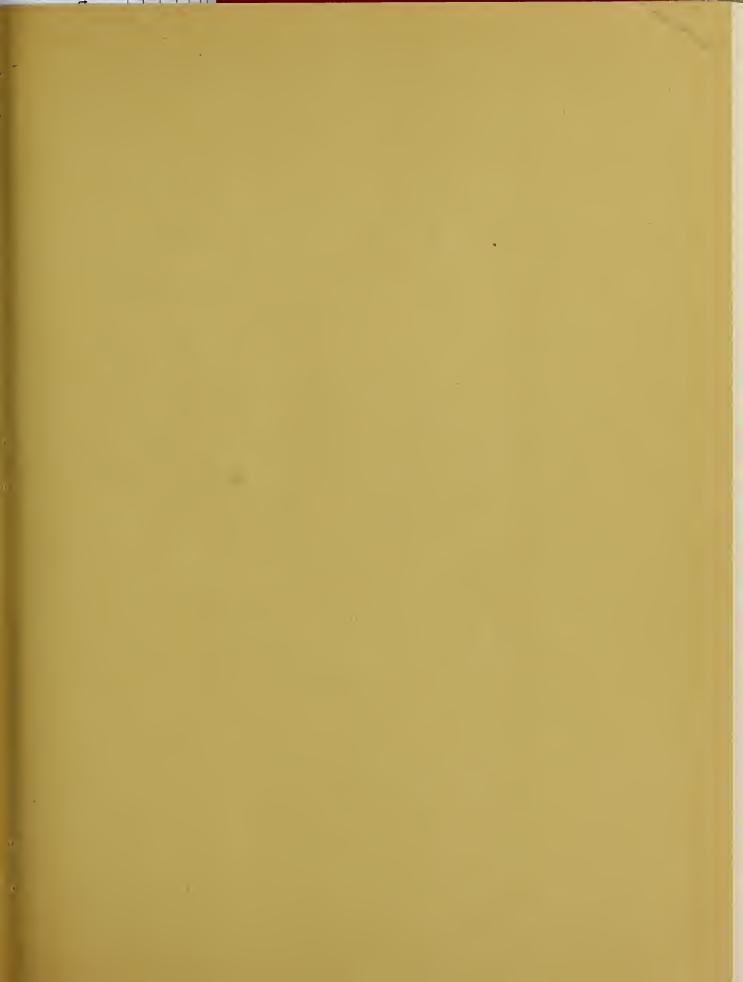
IRRIGATION DISTRICTS

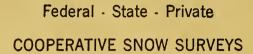
Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
East Fork Irrigation District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users Incorporated
Medford Irrigation District
Ochoco Irrigation District
Rogue River Irrigation District
Talent Irrigation District
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

Amalgamated Sugar Company South Wasco Soil Conservation District The Crag Rats, Hood River, Oregon







Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"